

# Barudan BESR User Manual

## Instructions



## Basics

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### Control Panel Keys

- **PRODUCT:** Shows stitch counter. Is reset by pressing + and - simultaneously.
- **FUNC:** Edits function codes of a design in memory.
- **+ AND - KEYS:** To increment or decrement parameters.
- **TEACH'G:** To program the color change sequence.
- **TS:** Activates thread trimming at color change or stop codes. Toggles on and off.
- **SCALE:** Resizing of the design. Use the + and - keys.
- **ROTATION:** Rotation of the design. Use the + and - keys.
- **MIRROR:** Quick mirror of the design. Toggles on or off.
- **TAPE:** To bypass memory and sew one stitch at a time from tape.
- **NEW:** To store a design in memory.
- **ADD:** To add to a design in memory.
- **\* KEY:** To delete a design.

- **SET:** To accept a parameter.
- **MENU KEY 1 (LEFT):** To change the current design number.
- **MENU KEY 2 (MIDDLE):** To change the tape code.
- **MENU KEY 3 (RIGHT):** To rotate design by 45 degrees.
- **O KEY:** To change between absolute or incremental frame movement information.
- **ORIGIN:** Hold down shortly to cause frame to seek origin point of design.
- **FLOAT:** When toggled on the design will move through the design without sewing.
- **DRIVE:** Activates and de-activates **DRIVE** mode. Press to activate, hold down to de-activate.

#### Parameter setting

- **PARAMETERS:** Hold down the **O KEY** for one second to enter parameter settings. Use the +/- keys and the **O KEY** to configure machine.

#### Bar switch and button (under table)

- **BAR SWITCH LEFT:** Pull bar to the left to stop sewing.
- **BAR SWITCH RIGHT:** Pull bar to the right to start sewing.

#### Frame move

- **ARROW KEYS:** To manually move the pantograph.

## Load a new design

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#### Loading from the Tape Reader or USB Reader.

1. Be sure you are not in **DRIVE** mode. If the **DRIVE** light is on, then hold down **DRIVE** until stops beeping.
2. Press the **NEW** key.
3. Press **MENU KEY 2** on the upper middle until the menu says **U**.
4. Press **MENU KEY 1** on the left until you have chosen the memory location to store in.
5. Press the **DRIVE** key. The download will start.
6. Finished!

## Select a design in memory

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1. Be sure you are not in **DRIVE** mode. If the DRIVE light is on, then hold down **DRIVE** until stops beeping.
2. Press **MENU KEY 1** on the upper left until you have picked a new design.
3. Move the pantograph to your design start location.
4. Press the **DRIVE** key.
5. Pull the bar switch to the right. You should hear a beep.
6. Done!

## Setting color change

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1. Be sure you are not in **DRIVE** mode. If the DRIVE light is on, then hold down **DRIVE** until stops beeping.
2. Switch to the design you wish to program color change for by pressing **MENU KEY 1**.
3. Make sure the **TEACH** button is OFF. If the light is on, press button to turn it off.
4. Hold down **TEACH** button until it starts flashing and beeping continuously.
5. Press **DRIVE** button.
6. The display will scroll to the next color. Use the + **and** - keys to change to the desired needle number.
7. Press **DRIVE** to set the color, and repeat until the end of the design.
8. There is not usually a color change at the beginning, so set the color manually before sewing.

## Erasing design in memory

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1. Be sure you are not in **DRIVE** mode. If the DRIVE light is on, then hold down **DRIVE** until stops beeping.
2. Press the \* **KEY**.
3. You will see on option for Thread Trim, and for **DELETE**.
4. Choose the **DELETE** option by pressing **MENU KEY 3** on the upper right.
5. You will now be at a delete menu.
6. Press the + **and** - keys to select the design to erase.
7. Press the **SET** key to delete the design.

## Immediate thread trimming

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1. Be sure you are not in **DRIVE** mode. If the DRIVE light is on, then hold down **DRIVE** until stops beeping.
2. Press the \* **KEY**.
3. You will see on option for Thread Trim, and for **DELETE**.
4. Choose the **THREAD TRIM** option by pressing **MENU KEY 2** on the upper middle.
5. The display will show **BAR START !!**
6. Pull the underneath bar to the right to activate immediate thread trim.

## Error codes

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- **E2 MANUAL SW**: For roll to roll operation
- **E3 UNLOCK**: When color change turret is off position. Check if the pin is in the V-shaped groove on the heads.
- **E4 READER**: The tape reader is not seen.
- **E5 TAPE ERROR**: When tape reader data is incorrect.
- **E6 NO DESIGN**: When a memory location with no design loaded is chosen.
- **E7 MEMORY ERROR**: This memory location has been deleted.
- **E8 FULL DELETE**: The memory is full, delete some designs.
- **E9 DESIGN REFUSED**: Reload the design, or delete a design from memory.
- **E10 SLIDER INACTIVE**: One of the hook grabbers underneath the head is stuck, or not at its sensor home position.

If unable to control pantogram, then check your J2, J3, J4 boards with power off. Also check the chunky bar transistor, which is to the right of the J4 slot. Contact our repair department if you suspect damage.

